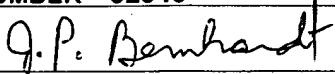


U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE <small>FORM PTO-1390 (REV. 07-2005)</small>		ATTORNEY'S DOCKET NUMBER 34029/US/2 <small>U.S. APPLICATION NUMBER (if known) - see 37 CFR 1.5</small> 107588587
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		
EXPRESS MAIL # EV 695994915 US EXPRESS MAIL DATE AUGUST 4, 2006		
INTERNATIONAL APPLICATION NO. PCT/US2005/003502	INTERNATIONAL FILING DATE FEBRUARY 4, 2005	PRIORITY DATE CLAIMED FEBRUARY 4, 2004
TITLE OF INVENTION ANTI-FREEZE PROTEIN ENHANCED NUCLEIC ACID AMPLIFICATION		
APPLICANT(S) FOR DO/EO/US RYAN SMITH WESTBERRY; LARS-ERIK PETERS; JESSICA JACLYN GREENLEE		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input checked="" type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> had been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
Items 11 to 20. below concern document(s) or information included:		
<ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 included 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 – 1.825 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4) 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 		

U.S. APPLICATION NO. (IF KNOWN) SEE 37 CFR 1.5) 10/588587		INTERNATIONAL APPLICATION NO. PCT/US2005/003502	ATTORNEY'S DOCKET NUMBER 34029/US/2
20. Other items or information:			
21. The following fees have been submitted:		CALCULATIONS	PTO USE ONLY
<input checked="" type="checkbox"/> a) Basic national fee		\$300.00	\$ 300.00
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-- 4).....		\$100.00	
All other situations.....		\$200.00	\$ 100.00
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as an International Searching Authority.....		\$100.00	
International Search Report prepared and provided to the Office		\$400.00	
All other situations		\$500.00	\$ 100.00
TOTAL OF 21, 22 and 23 =		\$ 500.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.			
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE
45 - 100	0 /50 =	0	x \$250.00
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).			\$ 0.00
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	21 -20 =	1	x \$50.00
Independent claims	3 -3 =	0	x \$200.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$360.00	\$ 0.00
		TOTAL OF ABOVE CALCULATIONS =	\$ 50.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.			\$ N/A
		subtotal =	\$ 0.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		+ \$ 0.00	
		TOTAL national fee =	\$ 550.00
Fee for recording the enclose assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$ N/A
		TOTAL fees enclosed =	\$ 500.00
		Amount to be refunded:	\$
		charged:	\$

IAP11 Rec'd PTO 04 AUG 2006
10/588587

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.5) TBD	INTERNATIONAL APPLICATION NO. PCT/US2005/003502	ATTORNEY'S DOCKET NUMBER 34029/US/2
<p>a. <input checked="" type="checkbox"/> A check in the amount <u>\$500.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account <u>50-2319</u> in the amount of <u>\$</u> to cover the above fees. No.</p> <p>A duplicate copy of this sheet is enclosed.</p> <p>c. <input type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-2319</u> A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p>		
SEND ALL CORRESPONDENCE TO: CUSTOMER NUMBER 32940		
TODD A. LORENZ Dorsey & Whitney LLP Intellectual Property Department 555 California Street Suite 1000 San Francisco, CA 94104	Signature  Name JEFFERY P. BERNHARDT FOR TODD A. LORENZ	Registration Number 54,997 FOR 39,754

4849-3383-5009\1